CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 30-11-2017

ASSISTANT EXECUTIVE ENGINEER

YALAHANKA SATELLITE TOWN SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of PROVIDNG COVERING SLABS AND CULVERT AROUND PARK IN CHS 707 3RD CROSS IN ATTUR WARD NO 03

Ref: 1. Work Order No: EE(YNK.D)E-PMT-07/WO/17/2017-18

2. Job code: 003-17-000046

We are herewith forwarding to Sri.B.R.Dananjaya, No:22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.4,74,852 /- (Rs. Four Lakhs Seventy Four Thousand Eight Hundred and Fifty Two Only).

AE W3 30/11

Thanking you,

AE-03

Yours faithfully,

For Civil Pro

R. KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-09-25-12** **Date: 28-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-17
Sample ID No	:	2017-09-25-12/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	151	151	3.0	97.0	90-100
3	10 mm	2234	2385	47.7	52.3	25-55
4	4.75 mm	2271	4656	93.1	6.9	0-10
5	Pan	344	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-09-25-12** **Date: 28-09-17**

Sample ID No : 2017-09-25-12/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.12	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Accepted AE-03

End of Report

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-09-25-12** **Date: 28-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-09-17
Sample ID No	:	2017-09-25-12/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	223	223	1.5	98.5	90-100
3	20 mm	7762	7985	53.2	46.8	30-70
4	10 mm	4538	12523	83.5	16.5	10-35
5	4.75 mm	1923	14446	96.3	3.7	0-5
6	Pan	554	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-09-25-12** **Date: 28-09-17**

Sample ID No : 2017-09-25-12/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)		Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)		
3	Specific Gravity		–
4	Bulk Density(Loose) (Kg/l)		–
5	Bulk Density(Compacted) (Kg/l)		–
6	Water Absorption(%)		–

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-09-25-12 **Date: 28-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP,
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-17
Sample ID No	:	2017-09-25-12/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-09-17

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	-
2	Finess by Air permeablity method (m^2/kg, Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-09-25-12** **Date: 24-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-17
Sample ID No	:	2017-09-25-12/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-09-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-10-03-04** **Date: 04-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-17
Sample ID No	:	2017-10-03-04/01
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-10-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
2	Indus	Fe550	10	0.615	578	640	18.5%	Satisfactory	Satisfactory
3	Indus	Fe550	12	0.887	585	652	19.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-09-25-12** **Date: 28-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-17
Sample ID No	:	2017-09-25-12/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	25-09-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	77	77	7.7	92.3	90-100	90-100	90-100	95-100
3	2.36 mm	132	209	20.9	79.1	60-95	75-100	85-100	95-100
4	1.18 mm	221	430	43.0	57.0	30-70	55-90	75-100	90-100
5	600 micron	131	561	56.1	43.9	15-34	35-59	60-79	80-100
6	300 micron	207	768	76.8	23.2	5-20	8-30	12-40	15-50
7	150 micron	198	966	96.6	3.4	0-10	0-10	0-10	0-15
8	Pan	34	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-09-25-12** **Date: 28-09-17**

Sample ID No : 2017-09-25-12/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.04	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-10-09-07** **Date: 14-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-17
Sample ID No	:	2017-10-09-07/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	10/10/2017

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.02	100.51	1.256	4419	88.9	20.1	18.7	23.4
2	Cover Slab-2	75.02	100.51	1.282	4419	92.3	20.9	19.4	24.3
3	Cover Slab-3	75.01	100.52	1.278	4418	91.5	20.7	19.3	24.1

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-10-21-06** **Date: 23/10/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-10-17
Sample ID No	:	2017-10-21-06/01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/10/2017	23/10/2017	149.19 X 150.23 X 150.39	22413	8.187	363.1	16.2	16.8
2	M20 Concrete	M20	16/10/2017	23/10/2017	149.29 X 150.22 X 150.93	22426	8.165	385.7	17.2	
3	M20 Concrete	M20	16/10/2017	23/10/2017	151.02 X 150.33 X 151.97	22703	8.173	383.7	16.9	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-10-21-06** **Date: 13/11/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Providing covering slabs and culverts around park in CHS 707 3rd cross in Attur ward no.03
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, floor mill road, Nagashettyhalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/17/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-10-17
Sample ID No	:	2017-10-21-06/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/11/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/10/2017	13/11/2017	150.21 X 151.82 X 150.76	22805	8.192	526.8	23.1	22.9
2	M20 Concrete	M20	16/10/2017	13/11/2017	151.65 X 150.30 X 150.82	22793	8.149	517.4	22.7	
3	M20 Concrete	M20	16/10/2017	13/11/2017	149.87 X 151.12 X 150.64	22648	8.195	518.6	22.9	

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AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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